PRE-INSTALLATION INSTRUCTIONS

Knight Model L
Wall/Cabinet, Ceiling
and Track Operating Lights

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PRE-INSTALLATION INSTRUCTIONS

Knight Model L Wall/Cabinet, Ceiling and Track Operating Lights

SECTION I - GENERAL INFORMATION

1. PURPOSE

The Model L Wall/Cabinet, Ceiling and Track Operating Lights require careful consideration of location, wiring and ceiling support structure. The purpose of this instruction is to provide information to the contractor for planning and preparing the installation site.

NOTE ▶ **Refer to the installation instructions provided with the light for more detailed information**

The suggestions shown in this instruction are not meant to be restrictive in any way. They may be altered to fit the situation or suit the doctor's personal preferences .

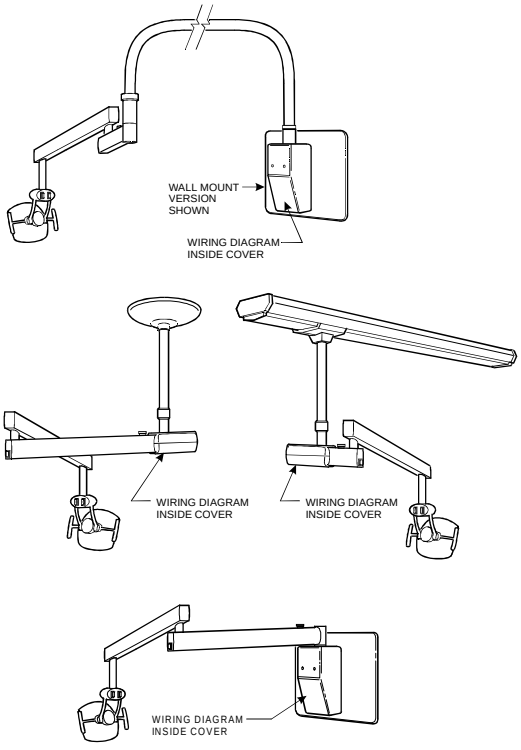

WALL MOUNT VERSION SHOWN
WIRING DIAGRAM INSIDE COVER
WIRING DIAGRAM INSIDE COVER
WIRING DIAGRAM INSIDE COVER
WIRING DIAGRAM INSIDE COVER

Figure 1

2. ELECTRICAL REQUIREMENTS

Before connecting the line cord to the electrical source, make certain that the circuit is protected by a 15-amp circuit breaker for 120-VAC models, or a 7.5-amp breaker for 240-VAC models. Ensure that all wiring is grounded and all electrical codes are observed.

WARNINGS **WARNING - Potential shock hazard with possible personal injury. To reduce shock hazard, observe all electrical codes.**

DANGER **DANGER: Turn off all electrical power at the power source before making primary electrical connections.**

3. WIRING DIAGRAM

The wiring diagrams for the lights are located on the inside of the transformer cover (See Figure 1).

This equipment is rated Class I, Type B

WALL, CABINET AND CEILING LIGHTS:

CE ETL LISTED CONFORMS TO UL STD. 2601-1 CERTIFIED TO CAN/CSA - C22.2 NO. 601.1 ETL LISTED C

TRACK LIGHT ONLY:

ETL LISTED CONFORMS TO UL STD. 544 CERTIFIED TO CAN/CSA - C22.2 NO. 125-M 1984 ETL LISTED C

SECTION II - WALL/CABINET MOUNTED LIGHT

1. PHYSICAL REQUIREMENTS

Before installing the Model L Wall/ Cabinet Mounted Light, ensure that the physical requirements are met (See Figures 2 & 2a).

2. LOCATION

The location of the Model L Wall/ Cabinet Mounted Light in the operatory should be determined by the doctor and the installer.

Consider the location of electrical outlets before mounting the light. The light has an eight foot power cord.

3. HEIGHT

We recommend a 6" clearance between the light arm and ceiling. This distance can be varied to suit the situation (See Figure 2 & 2a).

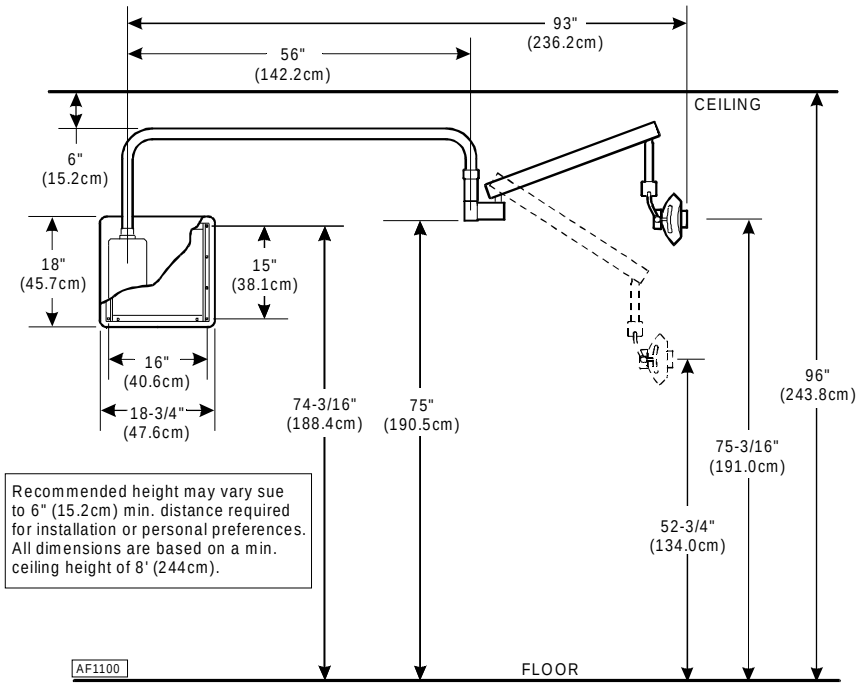


Figure 2

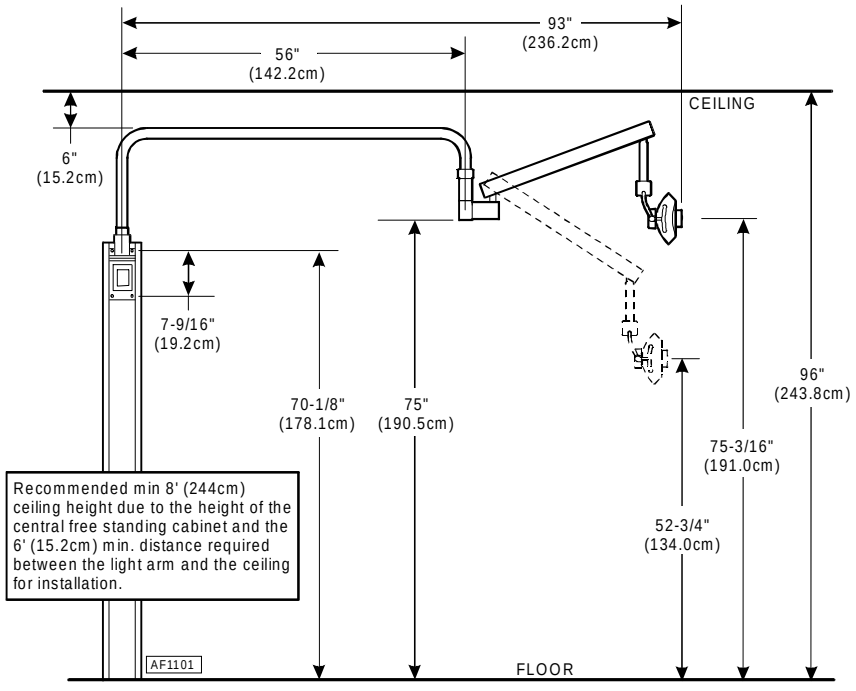


Figure 2a

SECTION II - WALL/CABINET MOUNTED LIGHT (CONT)

4. SUGGESTED INSTALLATION

Refer to the installation instructions for details and precautions.

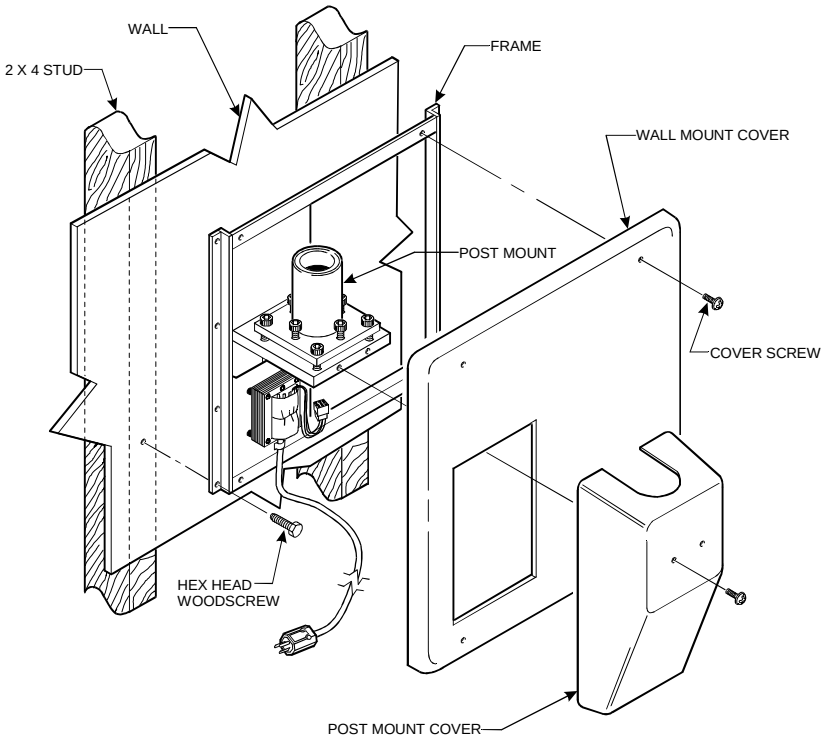


Figure 3

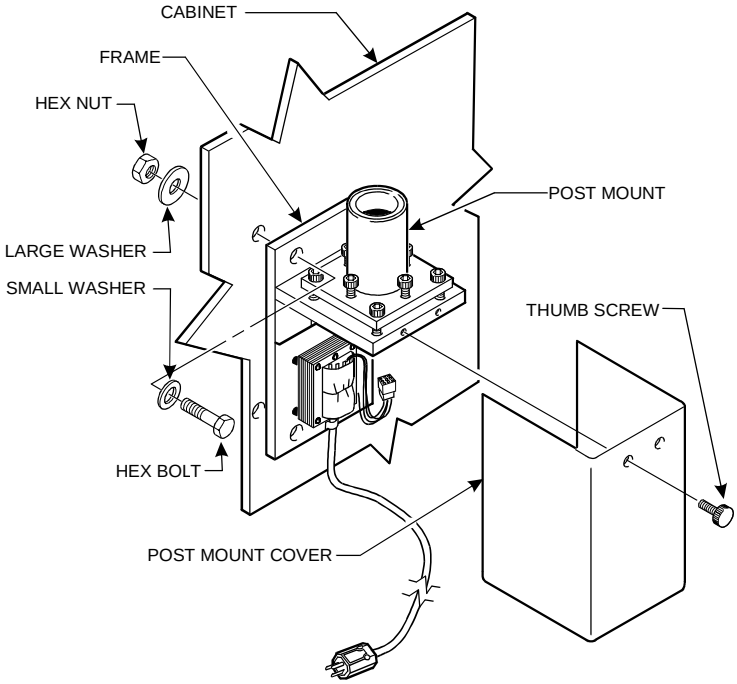


Figure 3a

SECTION III - WALL MOUNTED LIGHT (Short Arm)

1. PHYSICAL REQUIREMENTS

Before installing the Model L Wall Mounted Light, ensure that the physical requirements are met (See Figure 2).

2. LOCATION

The location of the Model L Wall Mounted Light in the operatory should be determined by the doctor and the installer. To permit usable movement of the light head, we suggest the light **should not** be mounted on a wall more than 3-1/2 feet from the operating area.

Consider the location of electrical outlets before mounting the light. The light has an eight foot power cord.

3. HEIGHT

The bottom edge of the mounting assembly should be approximately 59.7" above the floor. This distance can be varied to suit the situation (See Figure 2).

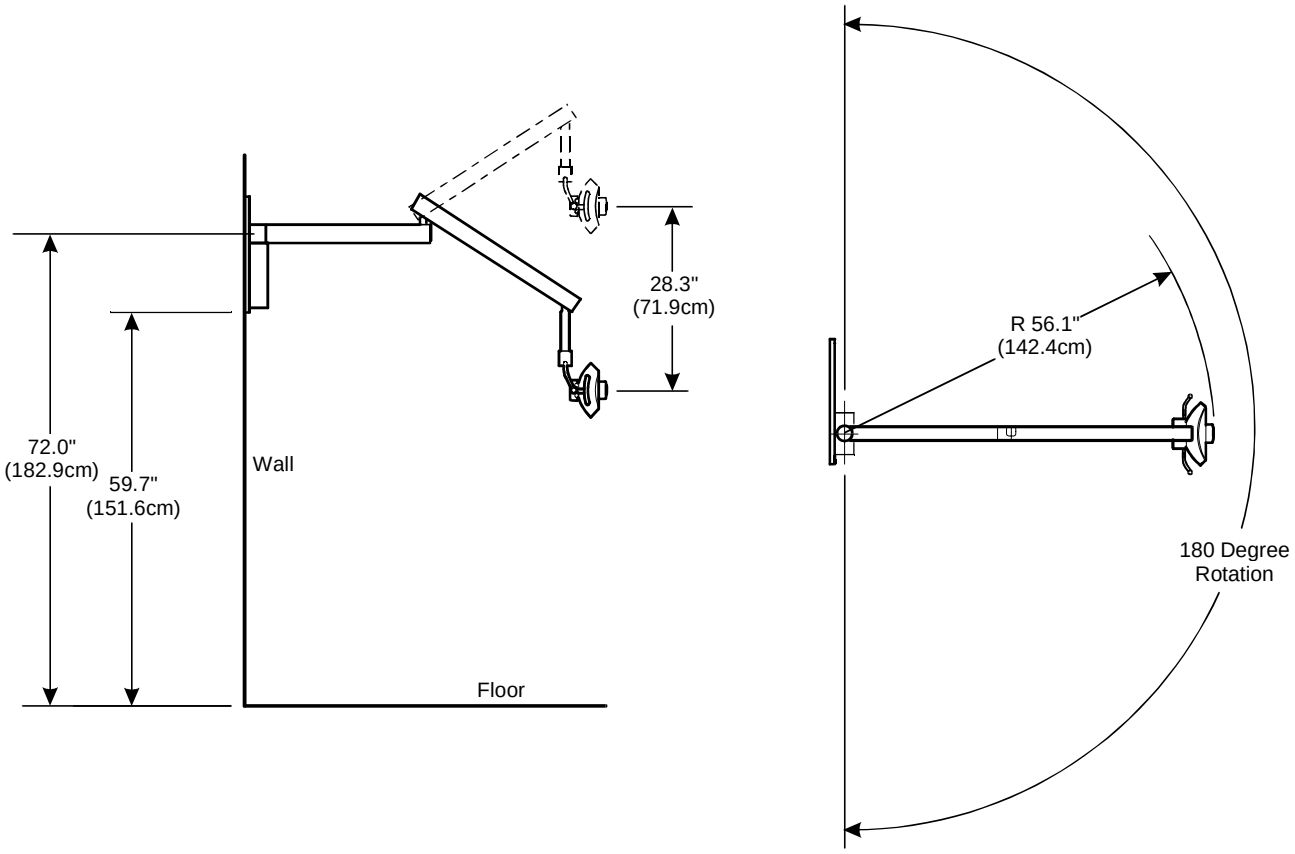
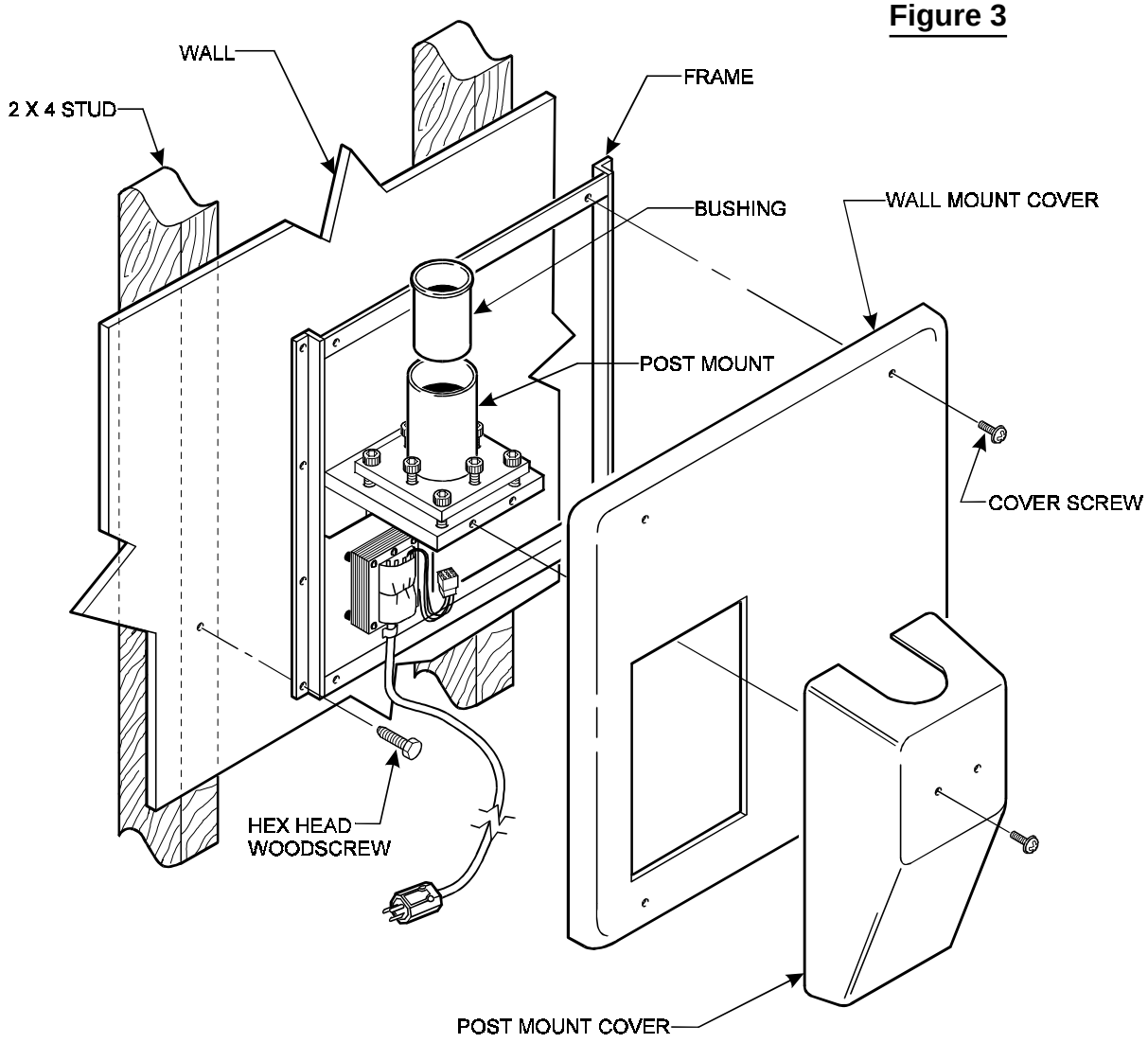


Figure 2

SECTION III - WALL MOUNTED LIGHT (SHORT ARM) (CONT)

4. SUGGESTED INSTALLATION ON WOOD FRAMED CEILINGS

Figure 3



SECTION IV - CEILING LIGHT

1. PHYSICAL REQUIREMENTS

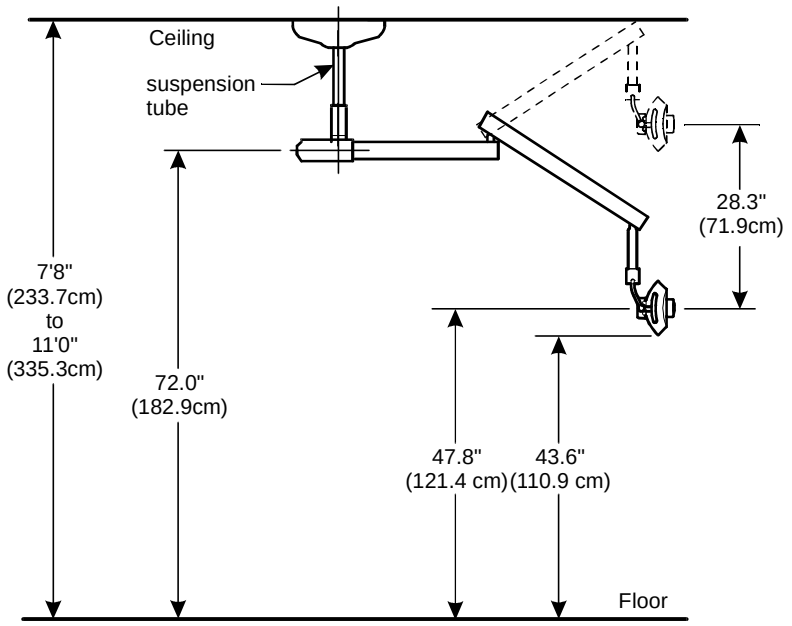
Before installing the Model L Ceiling Light, ensure that the physical requirements are met (See Figure 4).

2. LOCATION

A typical location for mounting the Model L Ceiling Light is shown in Figure 5. Mounting for a left handed operator would be on the opposite side of the chair.

3. HEIGHT

The maximum ceiling height that can be accommodated by suspension tubes available is 11 feet; the minimum being 7 feet - 8 inches (See Figure 4). Refer to Table 1 for proper suspension tube use.



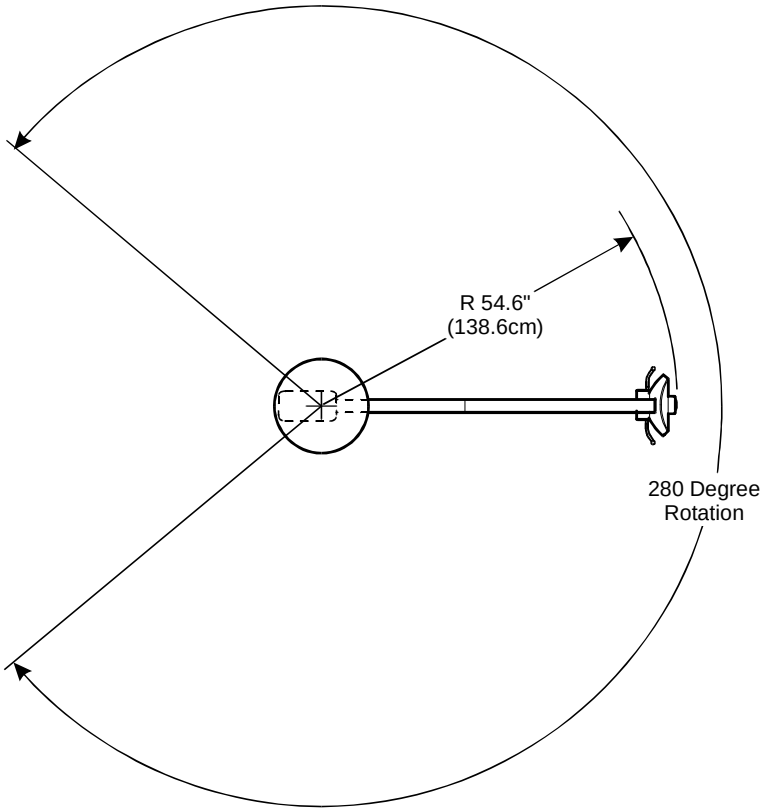


Figure 4

SECTION IV - CEILING LIGHT (CONT)

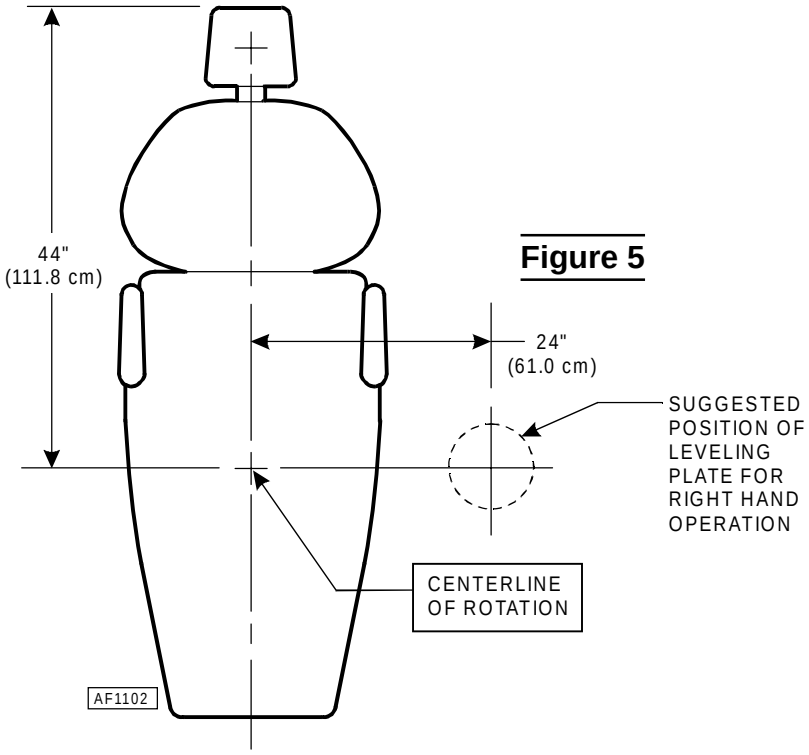


Figure 5

CEILING HEIGHT	SUSPENSION TUBE PART NO.	LENGTH (INCHES)
7 ft. 8 in. to 7 ft. 11 in.	152581	7
8 ft. to 8 ft. 3 in.	152582	11
8 ft. 4 in. to 8 ft. 7 in.	152583	15
8 ft. 8 in. to 8 ft. 11 in.	152584	19
9 ft. to 9 ft. 3 in.	152585	23
9 ft. 4 in. to 9 ft. 7 in.	152586	27
9 ft. 8 in. to 9 ft. 11 in.	152587	31
10 ft. to 10 ft. 3 in.	152588	35
10 ft. 4 in. to 10 ft. 7 in.	152589	39
10 ft. 8 in. to 11 ft.	152590	43

Table 1

SECTION IV - CEILING LIGHT (CONT)

4. SUGGESTED INSTALLATION ON WOOD FRAMED CEILINGS

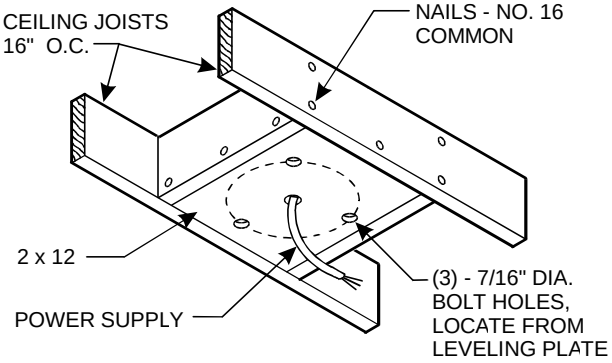


Figure 6 - New Construction

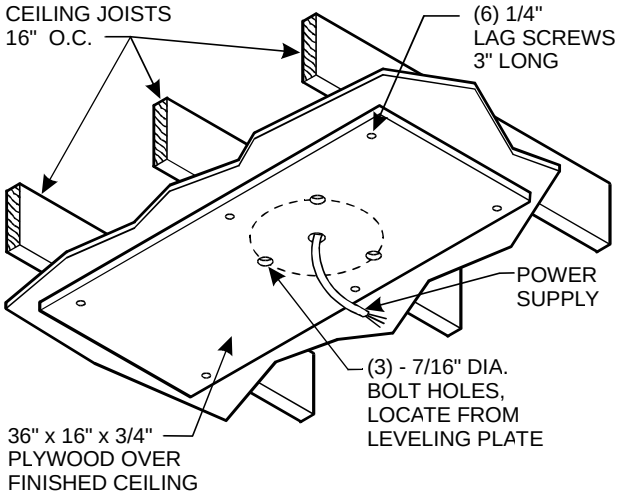


Figure 7 - Existing Construction

5. SUGGESTED INSTALLATION ON SUSPENDED CEILINGS

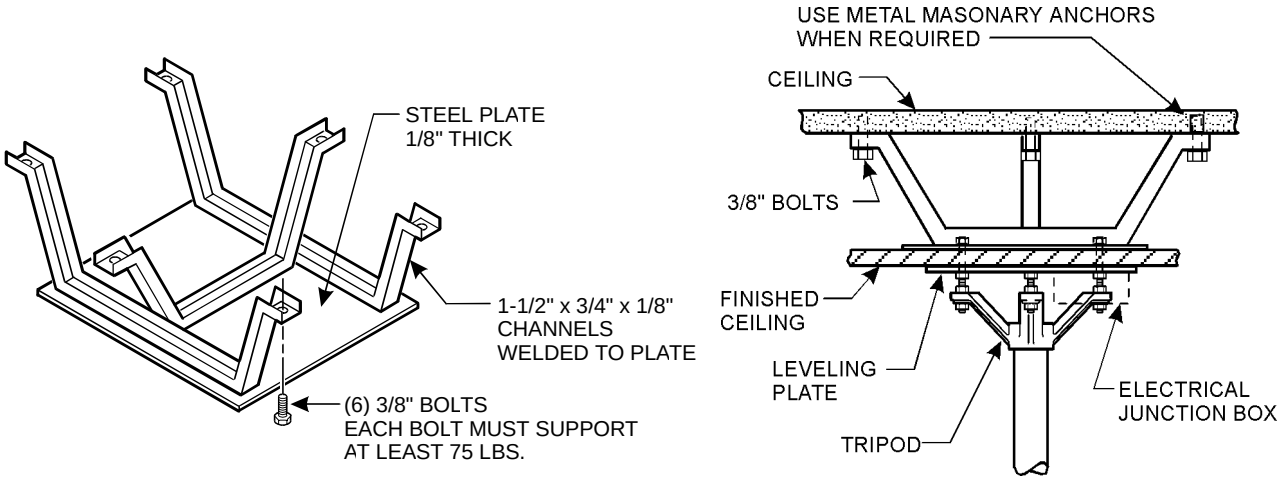


Figure 8 Installation on a suspended ceiling

SECTION V - TRACK LIGHT

1. PHYSICAL REQUIREMENTS

Before installing the Model L Track Light ensure, that the physical requirements are met (See Figure 9).

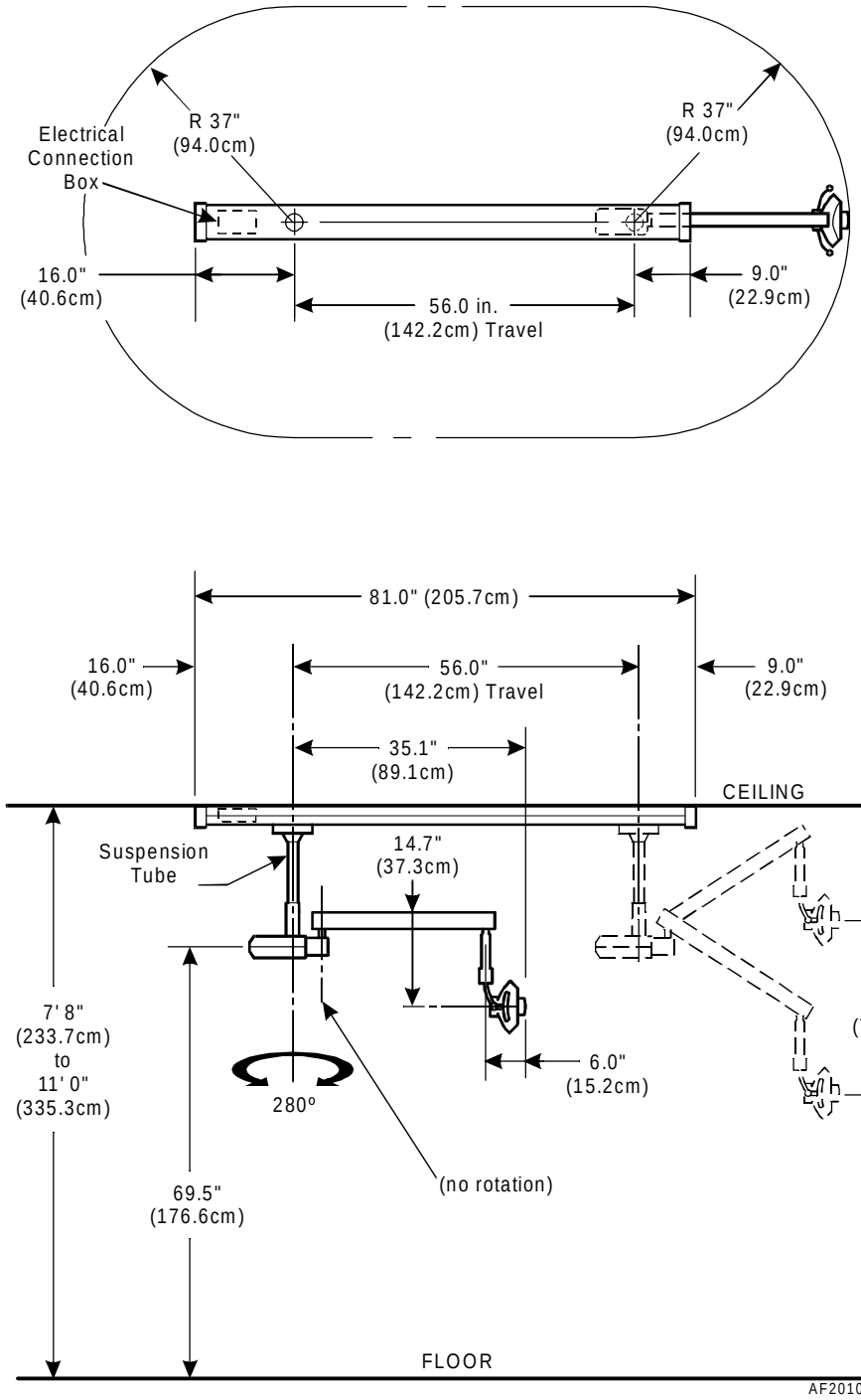


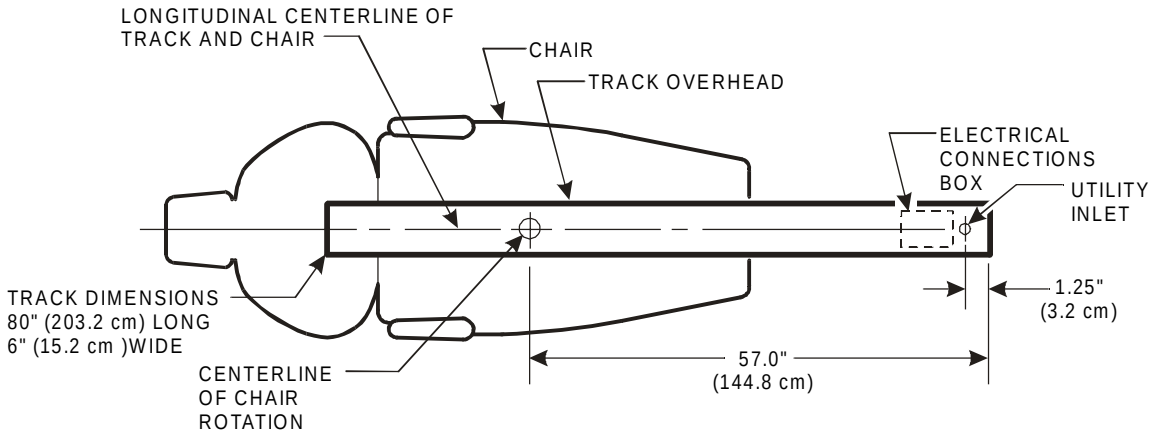
Figure 9

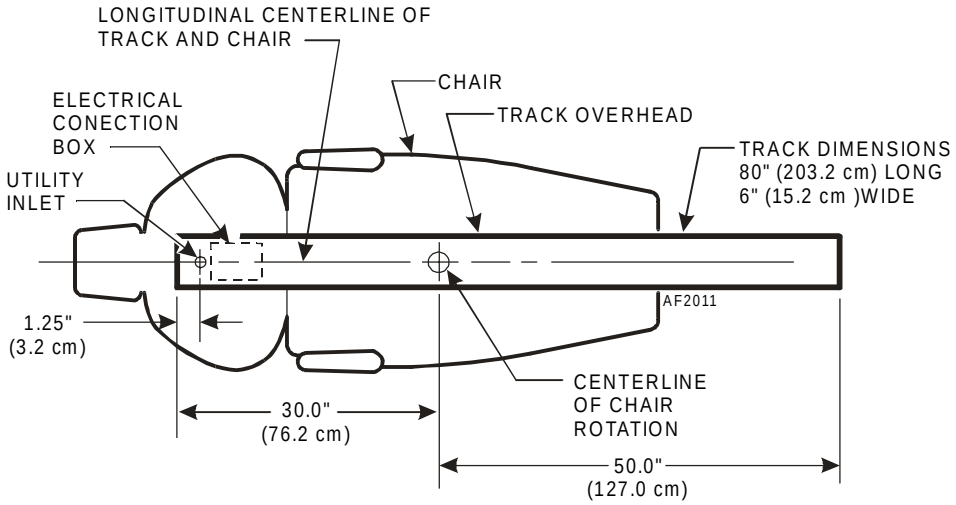
SECTION V - TRACK LIGHT (CONT)

2. LOCATION

A typical location for mounting the Model L Track Light is shown in Figure 10. Locate the longitudinal centerline of the track directly over the centerline of the chair base.

NOTE: An additional 18" of unobstructed ceiling from either end of the track is necessary to permit installation or removal of the track cover.





SECTION V - TRACK LIGHT (CONT)

3. HEIGHT

The maximum ceiling height that can be accommodated by suspension tubes available is 11 feet; the minimum being 7 feet - 8 inches. Refer to Table 2 for proper suspension tube use.

CEILING HEIGHT	SUSPENSION TUBE PART NO.	LENGTH (INCHES)
7 ft. 8 in. to 7 ft. 11 in.	152581	7
8 ft. to 8 ft. 3 in.	152582	11
8 ft. 4 in. to 8 ft. 7 in.	152583	15
8 ft. 8 in. to 8 ft. 11 in.	152584	19
9 ft. to 9 ft. 3 in.	152585	23
9 ft. 4 in. to 9 ft. 7 in.	152586	27
9 ft. 8 in. to 9 ft. 11 in.	152587	31
10 ft. to 10 ft. 3 in.	152588	35
10 ft. 4 in. to 10 ft. 7 in.	152589	39
10 ft. 8 in. to 11 ft.	152590	43

Table 2

4. TRACK DIMENSIONS

Figure 11 shows the track cover without end caps. These dimensions may be used to locate mounting holes for positioning the track light on the ceiling.

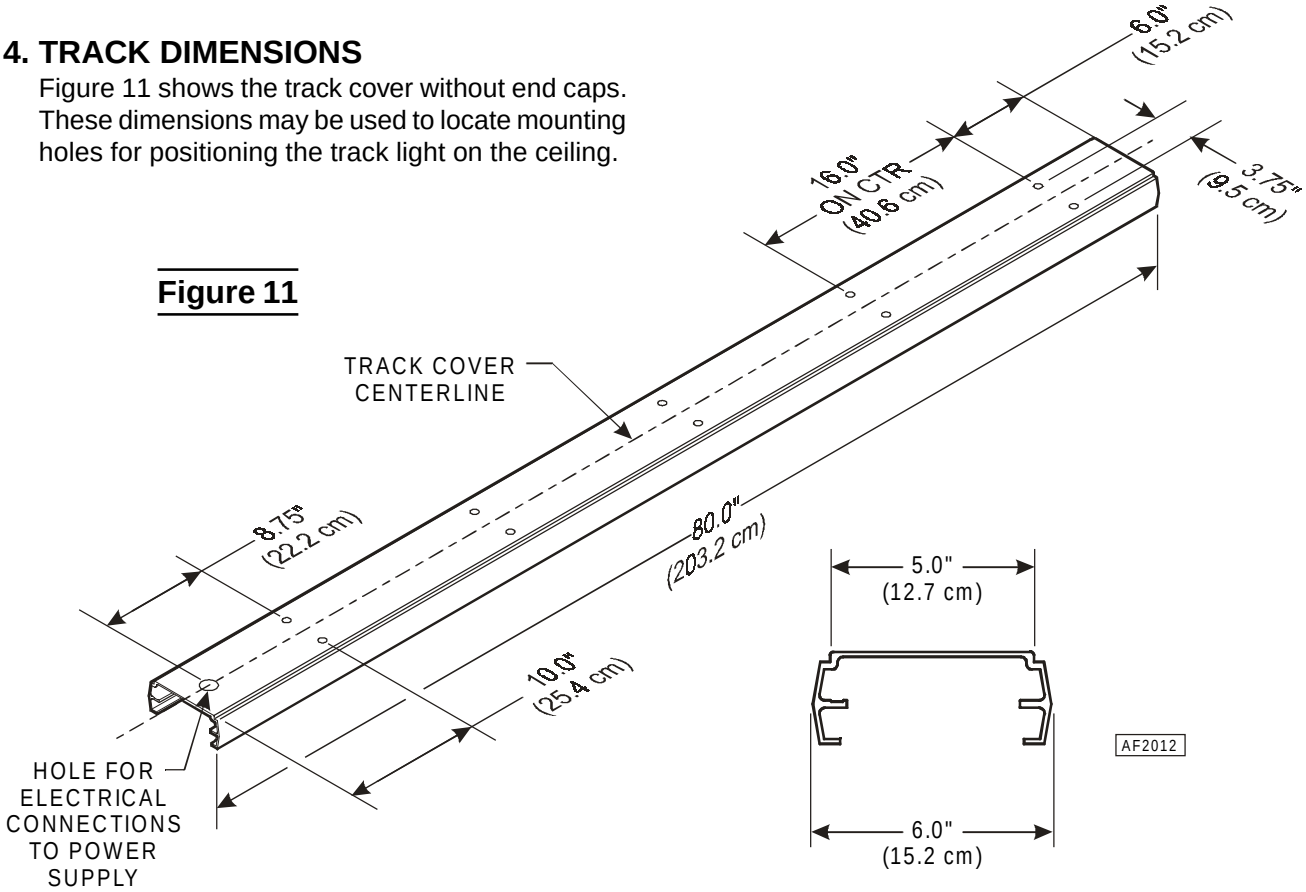


Figure 11

SECTION V - TRACK LIGHT (CONT)

5. SUGGESTED INSTALLATION ON WOOD FRAMED CEILINGS

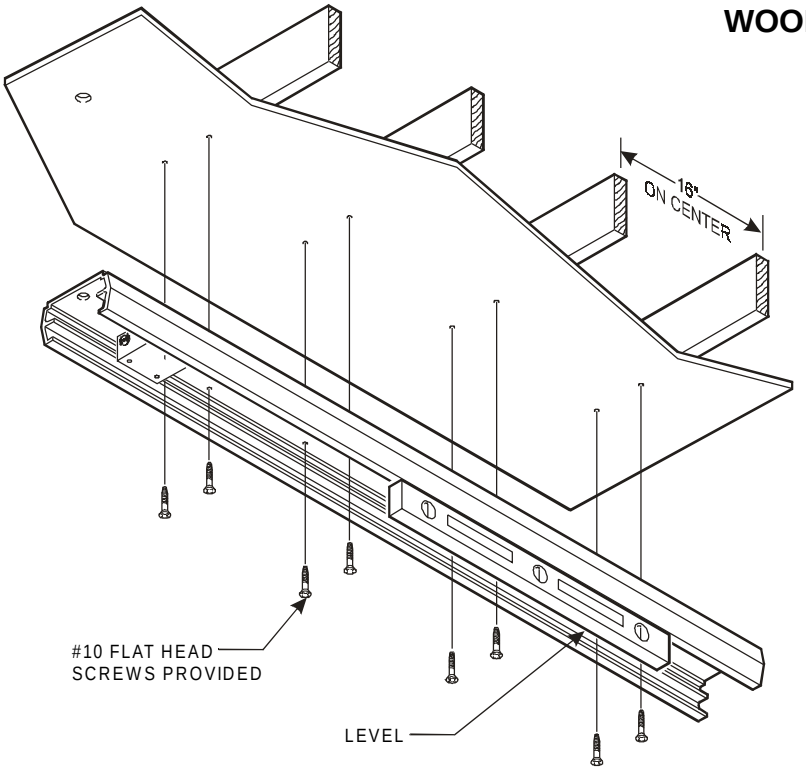


Figure 11 - Perpendicular to Joist New or Existing Construction

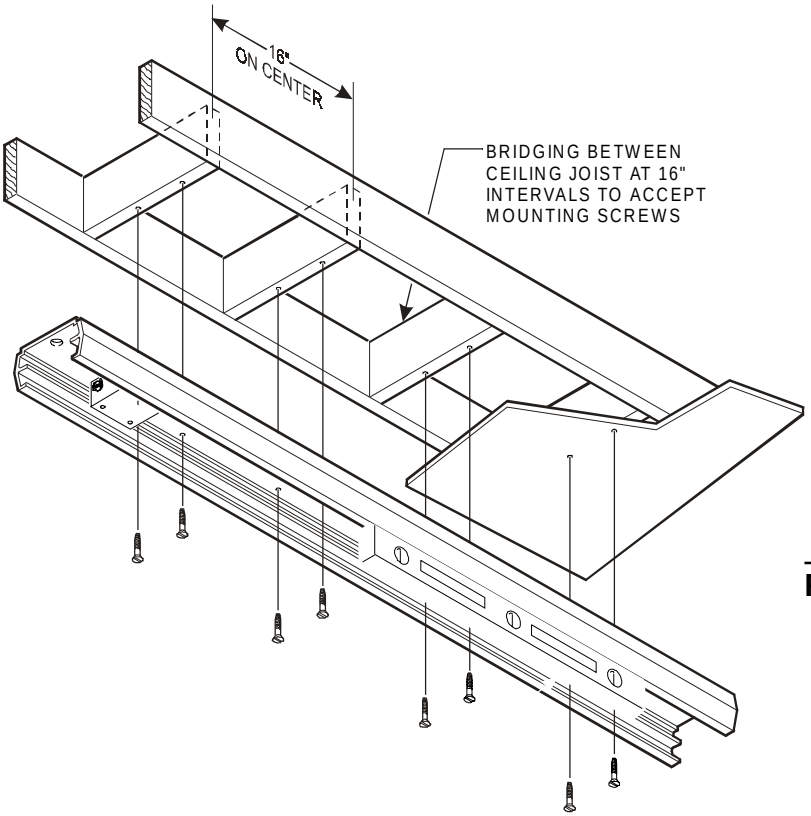


Figure 12 - Parallel to Joist New Construction

SECTION V - TRACK LIGHT (CONT)

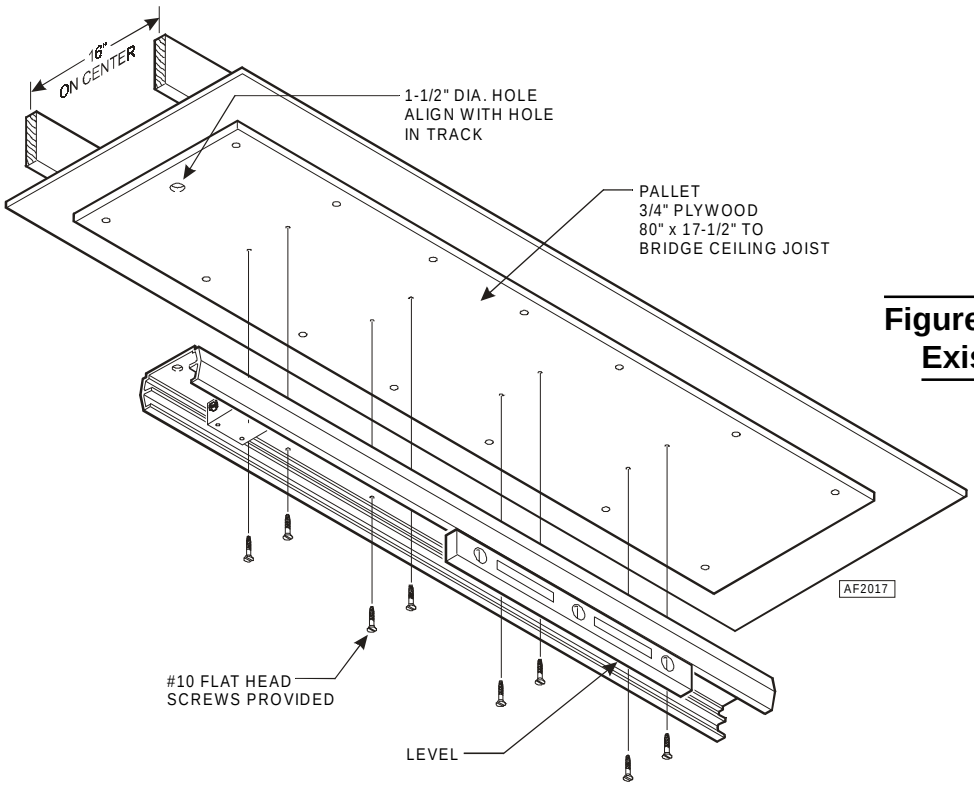
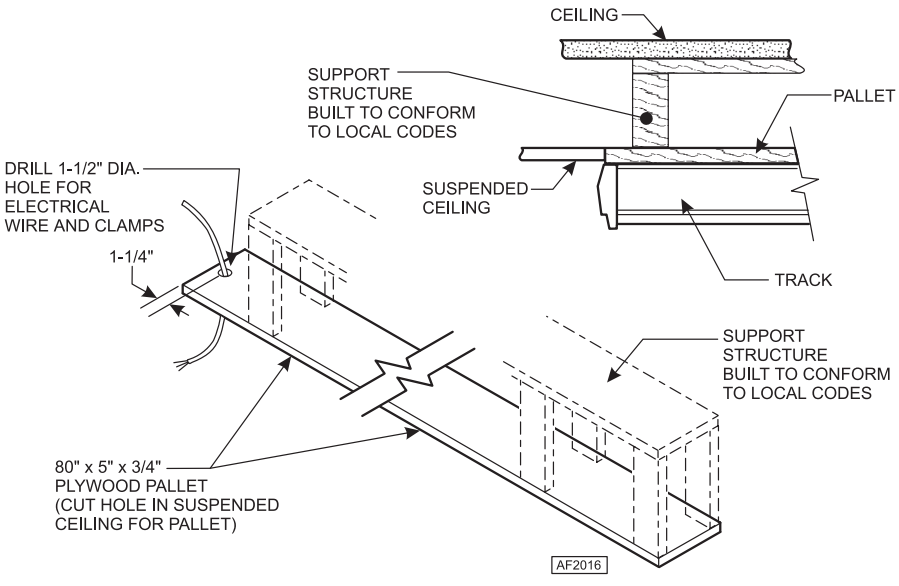


Figure 13 - Parallel to Joist Existing Construction

6. SUGGESTED INSTALLATION ON SUSPENDED CEILINGS



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DECLARATION OF CONFORMITY

MIDMARK CORPORATION

Midmark Corporation declares that Model L Light conforms to the applicable requirements of the Medical Device Directive 93/42/EEC, Annex VII.

Serial Numbers: LL3055 to present.

Quality Assurance Manager

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October 18, 1999

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KA940700

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